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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/590,496	06/09/2000	Stephen M. Lipka	NAO-0001	2489
7	590 06/13/2003			
CANTOR COLBURN LLP 55 Griffin Road South Bloomfield, CT 06002			EXAMINER	
			HA, NGUYEN T	
			ART UNIT	PAPER NUMBER
			2831	
		DATE MAILED: 06/13/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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· .	Application No.	Applicant(s)				
Office Action Summary	09/590,496	LIPKA ET AL.				
omee notion cummary	Examiner	Art Unit				
	Nguyen T Ha	2831				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on <u>09</u>	April 2003 and 14 April 2003 .					
2a) ☐ This action is FINAL . 2b) ☑ T	his action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-24 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-20</u> is/are allowed.						
6)⊠ Claim(s) <u>21-24</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claims are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are objected	to by the Examiner.					
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. § 119						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).						
Attachment(s)						
15) Notice of References Cited (PTO-892) 18) Interview Summary (PTO-413) Paper No(s)						
16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 17) ☑ Information Disclosure Statement(s) (PTO-1449) Paper No(s)	19) 🔲 Notice of Informal	Patent Application (PTO-152)				

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DETAILED ACTION

Response to Arguments

1. The applicant's arguments filed on 4/9/2003 are persuasive in overcoming the rejection of record. Therefore, the previous office action is hereby withdrawn. However, in view of the new prior art the examiner decides to make another rejection applied for claims 21-24.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 21&22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sasaki et al (5,279,910) in view of Takami et al (5,244,757).

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Regarding claim 21, Sasaki et al disclose a battery (figure 1) comprising a positive electrode (1) comprises a current collector (2) and manganese dioxide (column 5 lines 52-53), a negative electrode (4), an electrolyte (column 6 lines 30-34), and a separator (3).

Sasaki et al lack the negative electrode comprising carbonaceous material.

However, Takami et al teach a negative electrode comprising carbonaceous active material (column 17 lines 28-29).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Sasaki battery as taught by Takami to have the negative electrode comprises a carbonaceous material in order to increase the power density and the capacitance for the battery.

Regarding claim 22, the teaching of Takami et al includes the carbonaceous active material is nanofibrous/carbonaceous fibers (column 6 lines 47-56).

4. Claims 23&24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sasaki et al (5,279,910) in view of Takami et al (5,244,757) as applied in claim 21 above, and further in view of Xiao et al (6,162,530).

Regarding claims 23&24, the teaching of Sasaki and Takami include all the limitations discussed above with respect to claim 21, except for the manganese dioxide is nanostructured.

However, Xiao et al disclose the manganese dioxide is nanostructured being used as positive electrode.

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It would have been obvious to one having ordinary skill in the art at the time the

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invention was made to modify the Sasaki and Takami battery to used the manganese

dioxide as a nanostructured taught by Xiao in order to provide the high-energy storage

battery electrode.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Nguyen T Ha whose telephone number is 703-308-

6023. The examiner can normally be reached on Monday-Friday from 8:30Am to 6:00

Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Dean Reichard can be reached on 703-308-3682. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-305-3432

for regular communications and 703-305-3431 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0956.

NH

June 4, 2003

DEAN A. REICHARD

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800